

FIG. 1A

A 4x4 grid of numbers from 0 to 15. The grid is labeled with a bracket 110 at the top left and another bracket 105 at the top right.

0	1	2	3
4	5	6	7
8	9	10	11
12	13	14	15

FIG. 1B

A 4x4 grid of numbers from 0 to 15. The grid is labeled with a bracket 155 at the top left and another bracket 150 at the top right.

0	1	2	3
4	5	6	7
8	9	10	11
12	13	14	15

FIG. 2

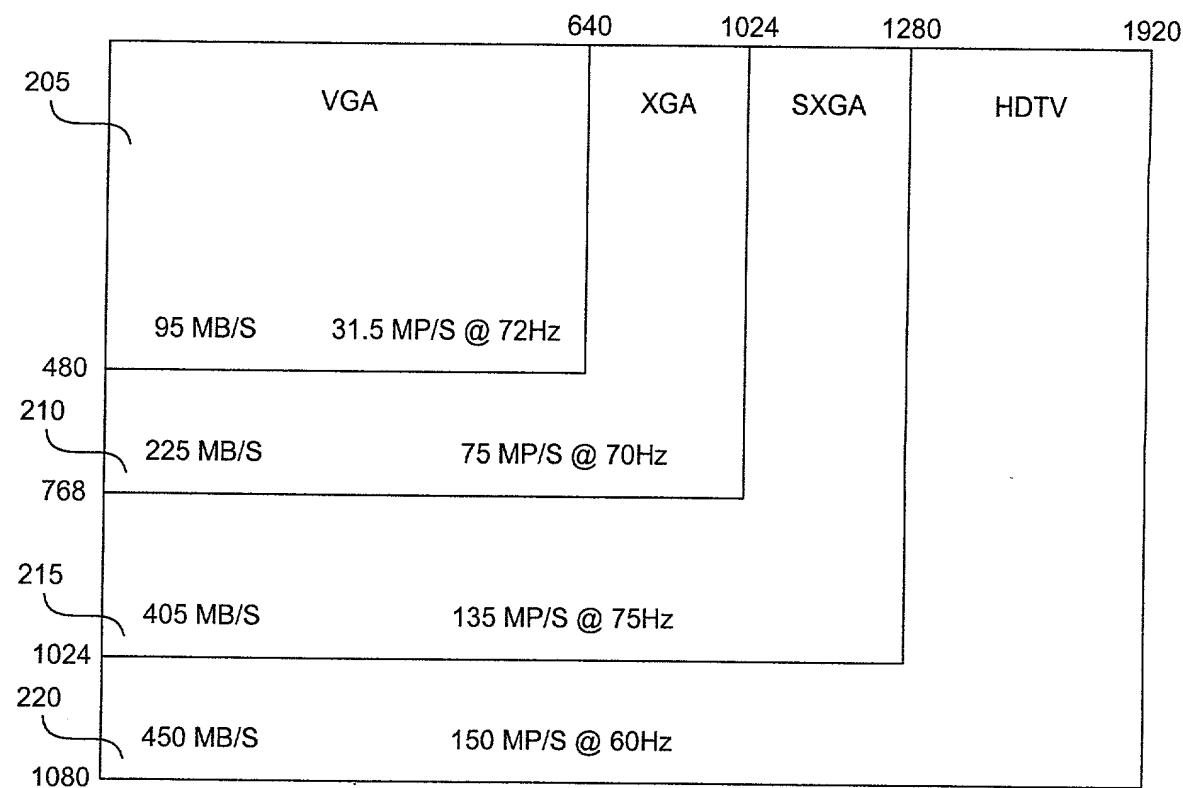


FIG. 3A

310

305

0	1	2	3	4	5	6	7
8	9	10	11	12	13	14	15
16	17	18	19	20	21	22	23
24	25	26	27	28	29	30	31

350

FIG. 3B

350

0	2	4	6
8	10	12	14
16	18	20	22
24	26	28	30

375

FIG. 3C

375

1	3	5	7
9	11	13	15
17	19	21	23
25	27	29	31

FIG. 4

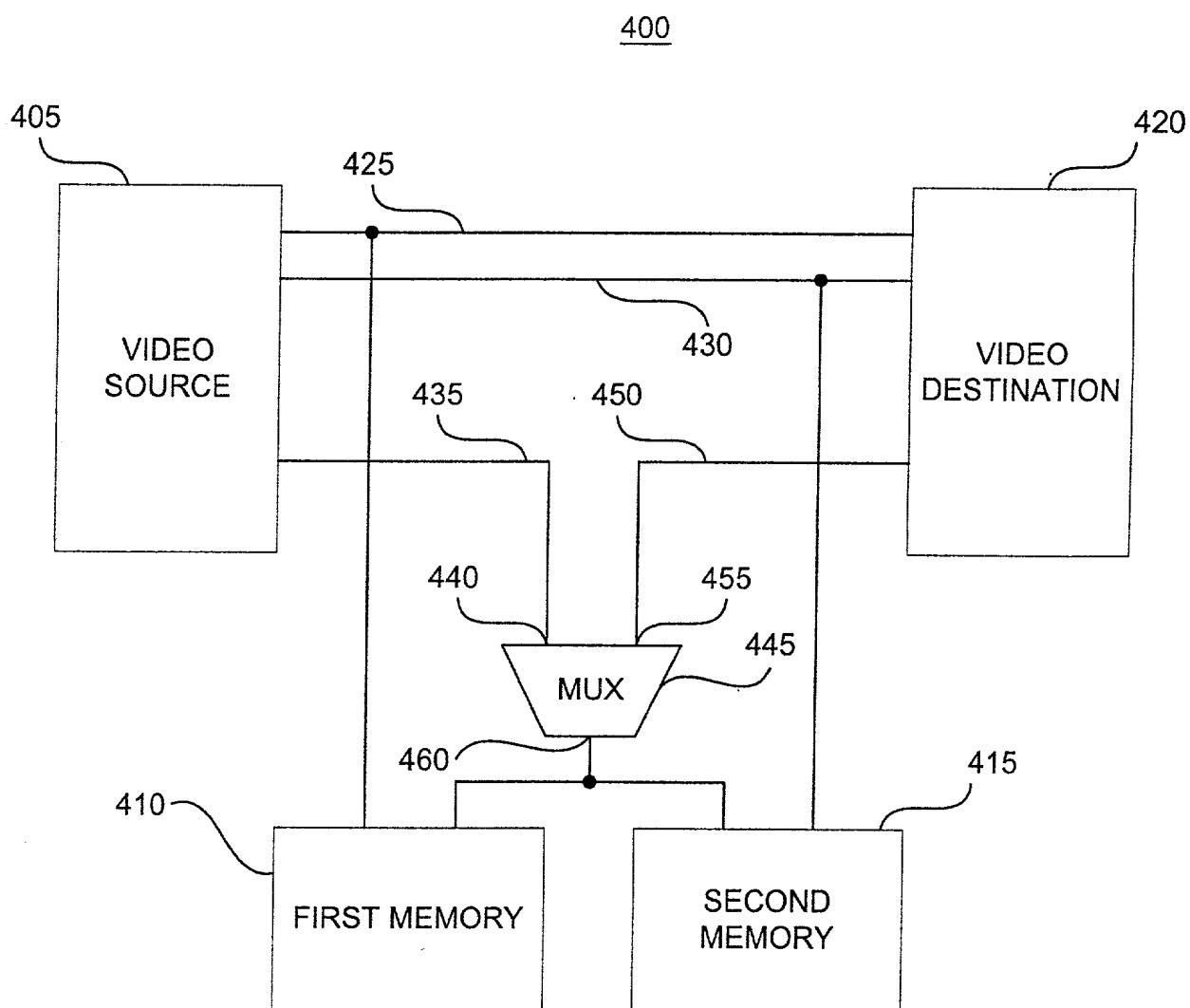


FIG. 5

20041120-20000%

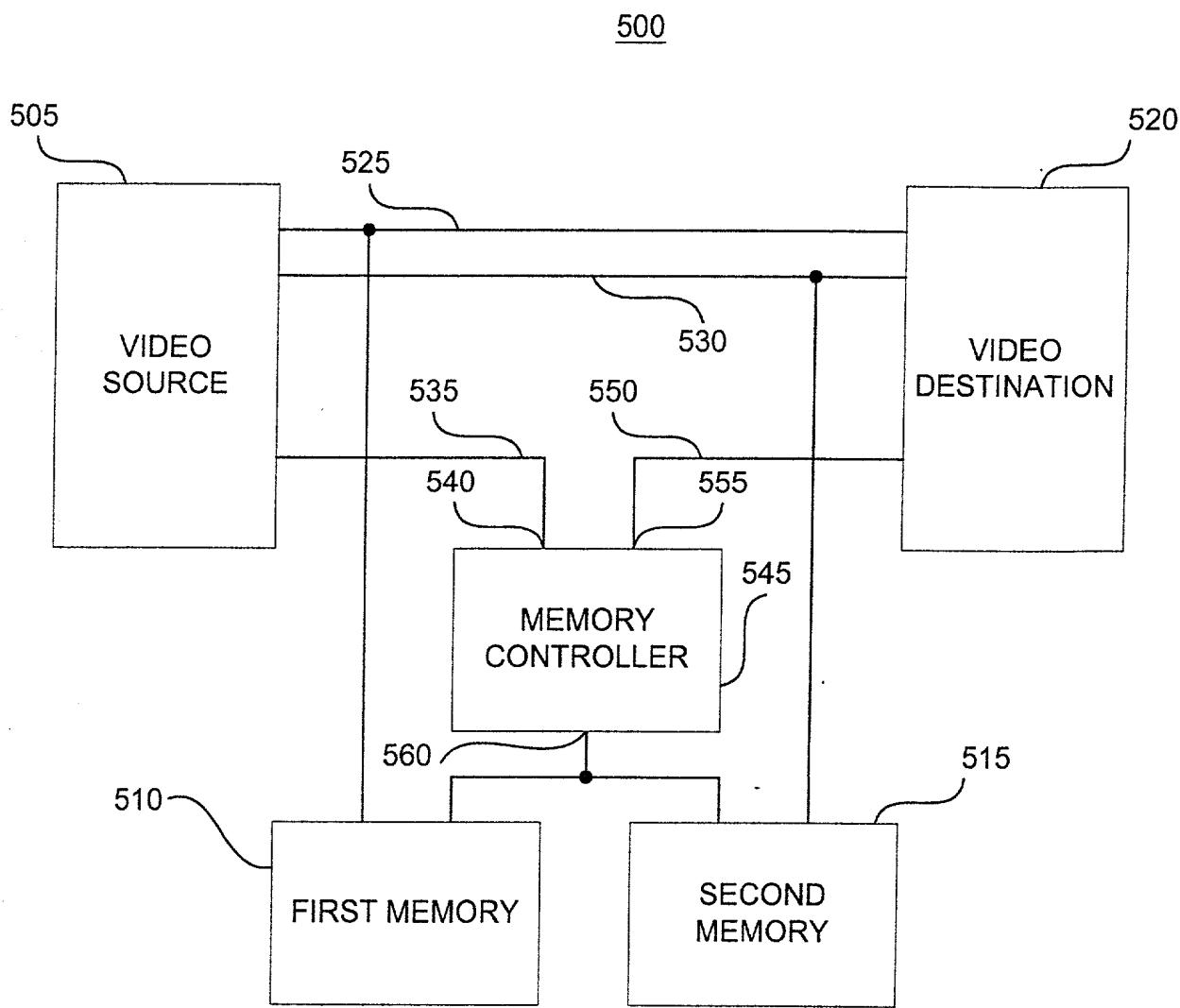


FIG. 6A

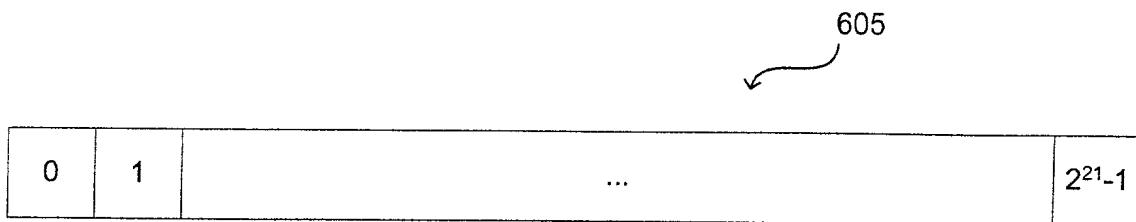


FIG. 6B

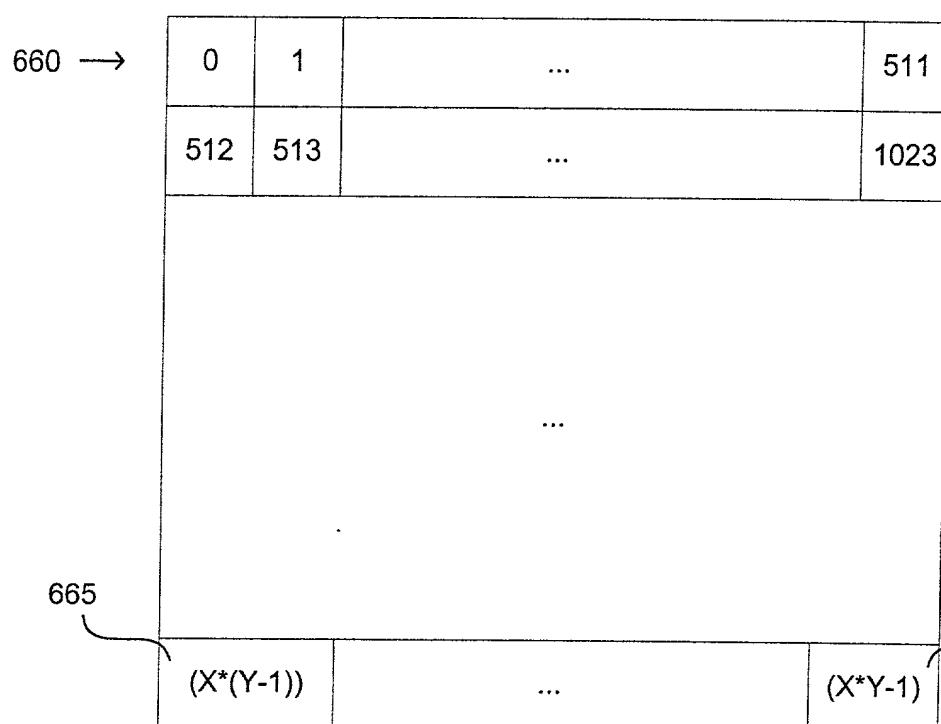


FIG. 6C

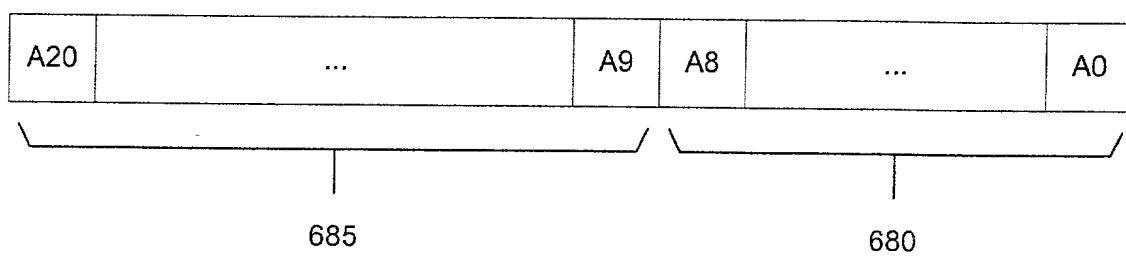


FIG. 7

0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15
16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31
32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47
48	49	50	51	52	53	54	55	56	57	58	59	60	61	62	63
64	65	66	67	68	69	70	71	72	73	74	75	76	77	78	79
80	81	82	83	84	85	86	87	88	89	90	91	92	93	94	95
96	97	98	99	100	101	102	103	104	105	106	107	108	109	110	111
112	113	114	115	116	117	118	119	120	121	122	123	124	125	126	127
128	129	130	131	132	133	134	135	136	137	138	139	140	141	142	143
144	145	146	147	148	149	150	151	152	153	154	155	156	157	158	159
160	161	162	163	164	165	166	167	168	169	170	171	172	173	174	175
176	177	178	179	180	181	182	183	184	185	186	187	188	189	190	191
192	193	194	195	196	197	198	199	200	201	202	203	204	205	206	207
208	209	210	211	212	213	214	215	216	217	218	219	220	221	222	223
224	225	226	227	228	229	230	231	232	233	234	235	236	237	238	239
240	241	242	243	244	245	246	247	248	249	250	251	252	253	254	255

FIG. 8

	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15
820 → 0	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15
1	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31
2	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47
3	48	49	50	51	52	53	54	55	56	57	58	59	60	61	62	63
4	64	65	66	67	68	69	70	71	72	73	74	75	76	77	78	79
5	80	81	82	83	84	85	86	87	88	89	90	91	92	93	94	95
6	96	97	98	99	100	101	102	103	104	105	106	107	108	109	110	111
7	112	113	114	115	116	117	118	119	120	121	122	123	124	125	126	127
8	128	129	130	131	132	133	134	135	136	137	138	139	140	141	142	143
9	144	145	146	147	148	149	150	151	152	153	154	155	156	157	158	159
10	160	161	162	163	164	165	166	167	168	169	170	171	172	173	174	175
11	176	177	178	179	180	181	182	183	184	185	186	187	188	189	190	191
12	192	193	194	195	196	197	198	199	200	201	202	203	204	205	206	207
13	208	209	210	211	212	213	214	215	216	217	218	219	220	221	222	223
14	224	225	226	227	228	229	230	231	232	233	234	235	236	237	238	239
15	240	241	242	243	244	245	246	247	248	249	250	251	252	253	254	255

FIG. 9

910	920		915												905	
	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15
925 → 0	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15
1	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31
2	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47
3	48	49	50	51	52	53	54	55	56	57	58	59	60	61	62	63
4	64	65	66	67	68	69	70	71	72	73	74	75	76	77	78	79
5	80	81	82	83	84	85	86	87	88	89	90	91	92	93	94	95
6	96	97	98	99	100	101	102	103	104	105	106	107	108	109	110	111
7	112	113	114	115	116	117	118	119	120	121	122	123	124	125	126	127
8	128	129	130	131	132	133	134	135	136	137	138	139	140	141	142	143
9	144	145	146	147	148	149	150	151	152	153	154	155	156	157	158	159
10	160	161	162	163	164	165	166	167	168	169	170	171	172	173	174	175
11	176	177	178	179	180	181	182	183	184	185	186	187	188	189	190	191
12	192	193	194	195	196	197	198	199	200	201	202	203	204	205	206	207
13	208	209	210	211	212	213	214	215	216	217	218	219	220	221	222	223
14	224	225	226	227	228	229	230	231	232	233	234	235	236	237	238	239
15	240	241	242	243	244	245	246	247	248	249	250	251	252	253	254	255

FIG. 10A

PIXELS

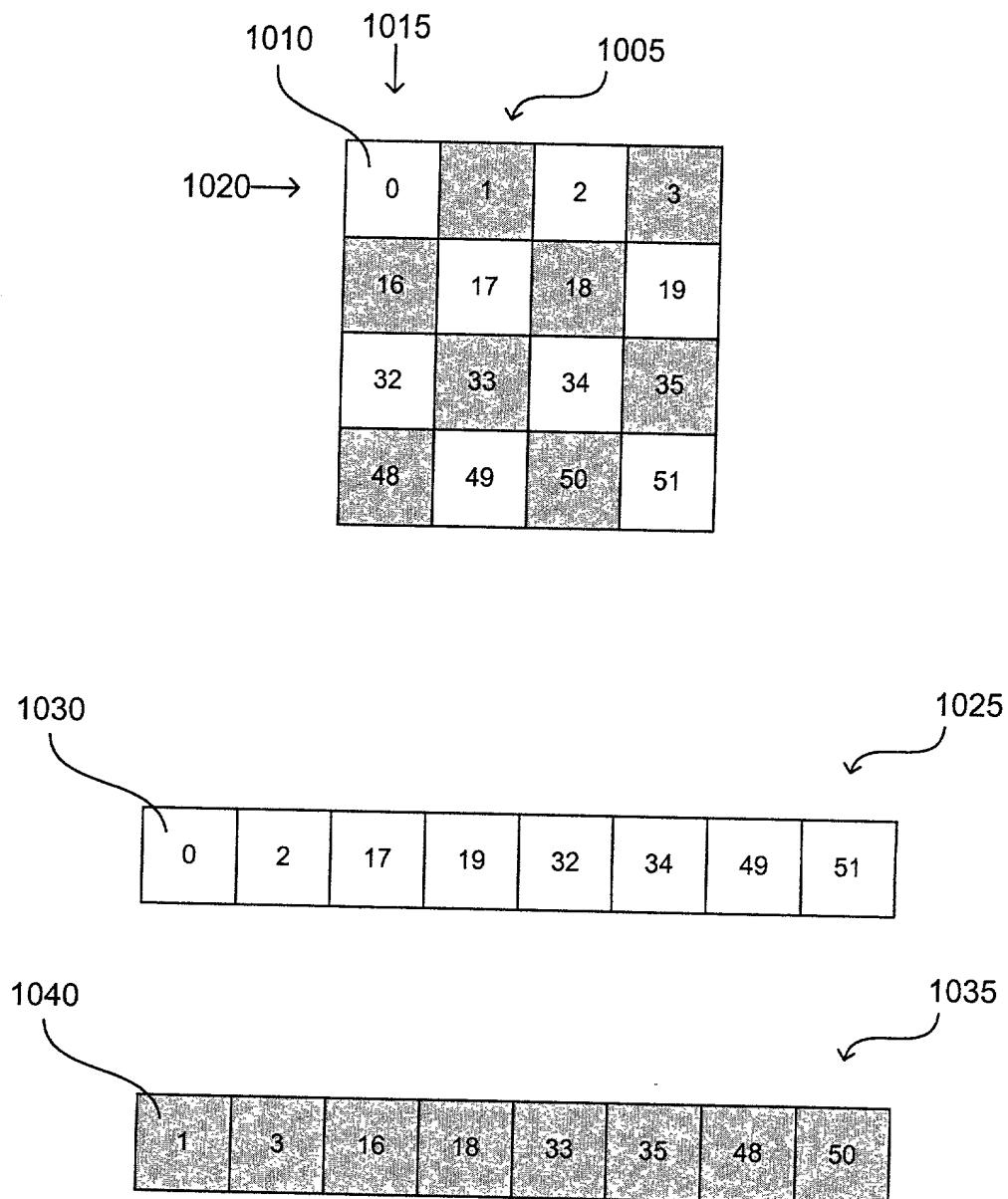


FIG. 10B

ADDRESSES

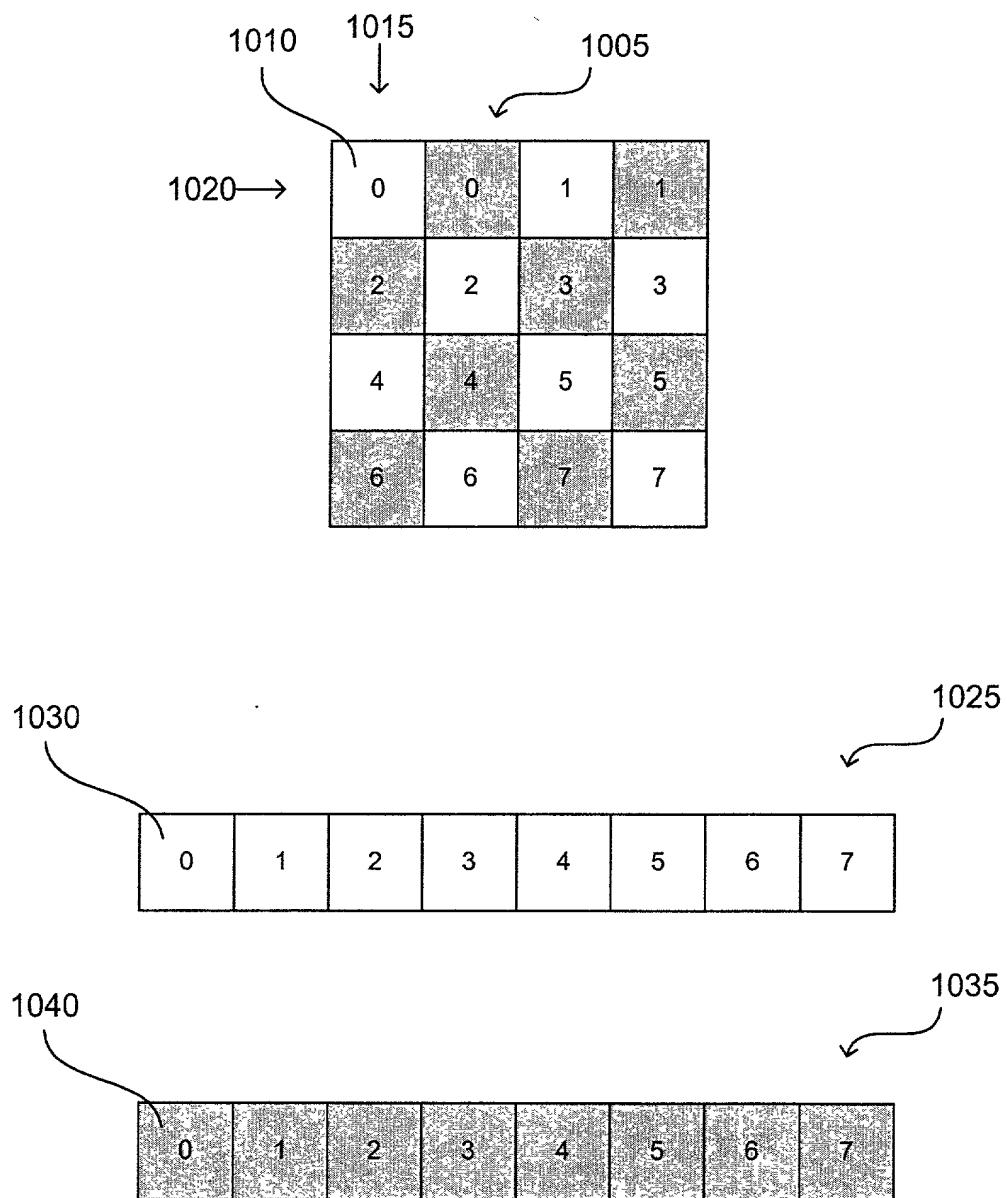


FIG. 11

The diagram shows a 4x5 grid of numbers. The columns are labeled 0, 1, 2, ..., and 31. The rows are labeled 0, 1, 2, ..., and 15. Arrows point from the top left to the first few cells and from the last cell to the top right.

1110	0	1	2	...	31
1120 → 0	0	1920	1921	1922	1951
1	3840	3841	3842	...	3871
2
15	28800	28801	28802	...	28831

FIG. 12

1200

PIXEL	FRAME ROW	FRAME COLUMN	PIXEL PAGE	PIXEL PAGE ROW	PIXEL PAGE COLUMN	MEMORY PAGE	MEMORY ADDRESS	MEMORY DEVICE
0	0	0	0	0	0	0	0	0
1	0	1	0	0	1	0	0	1
15	0	15	0	0	15	0	7	1
16	0	16	0	0	16	0	8	0
31	0	31	0	0	31	0	15	1
1919	0	1919	59	0	31	59	15119	1
1920	1	0	0	1	0	0	16	1
1921	1	1	0	1	1	0	16	0
1951	1	31	0	1	31	0	31	0
1952	1	32	1	1	0	1	272	1

FIG. 13

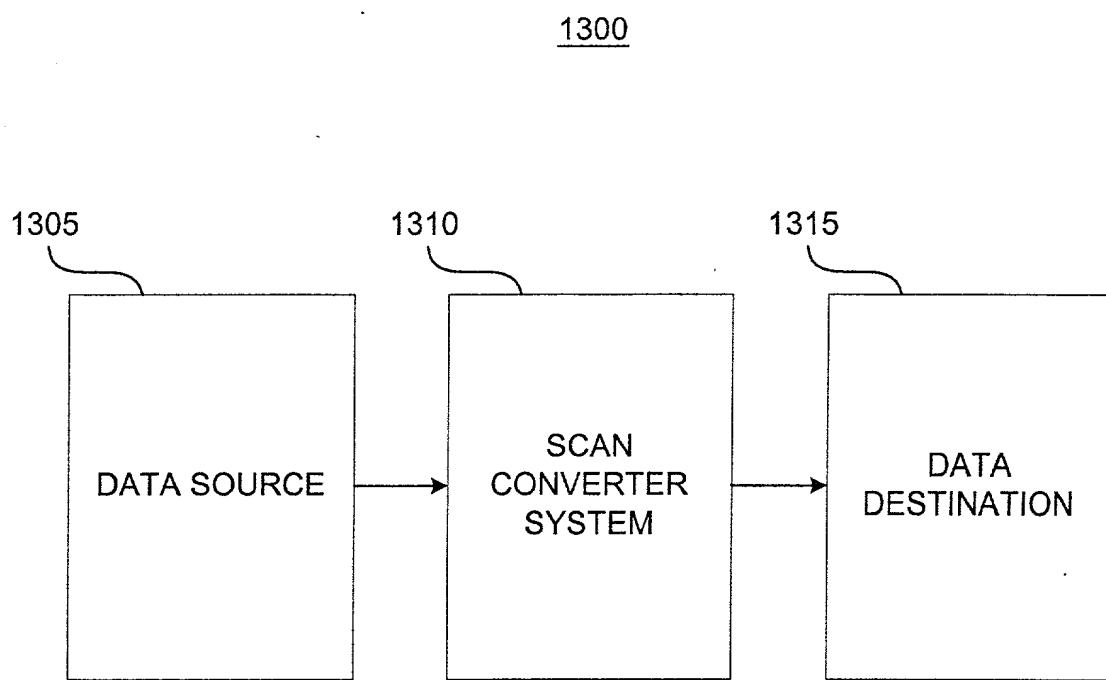


FIG. 14

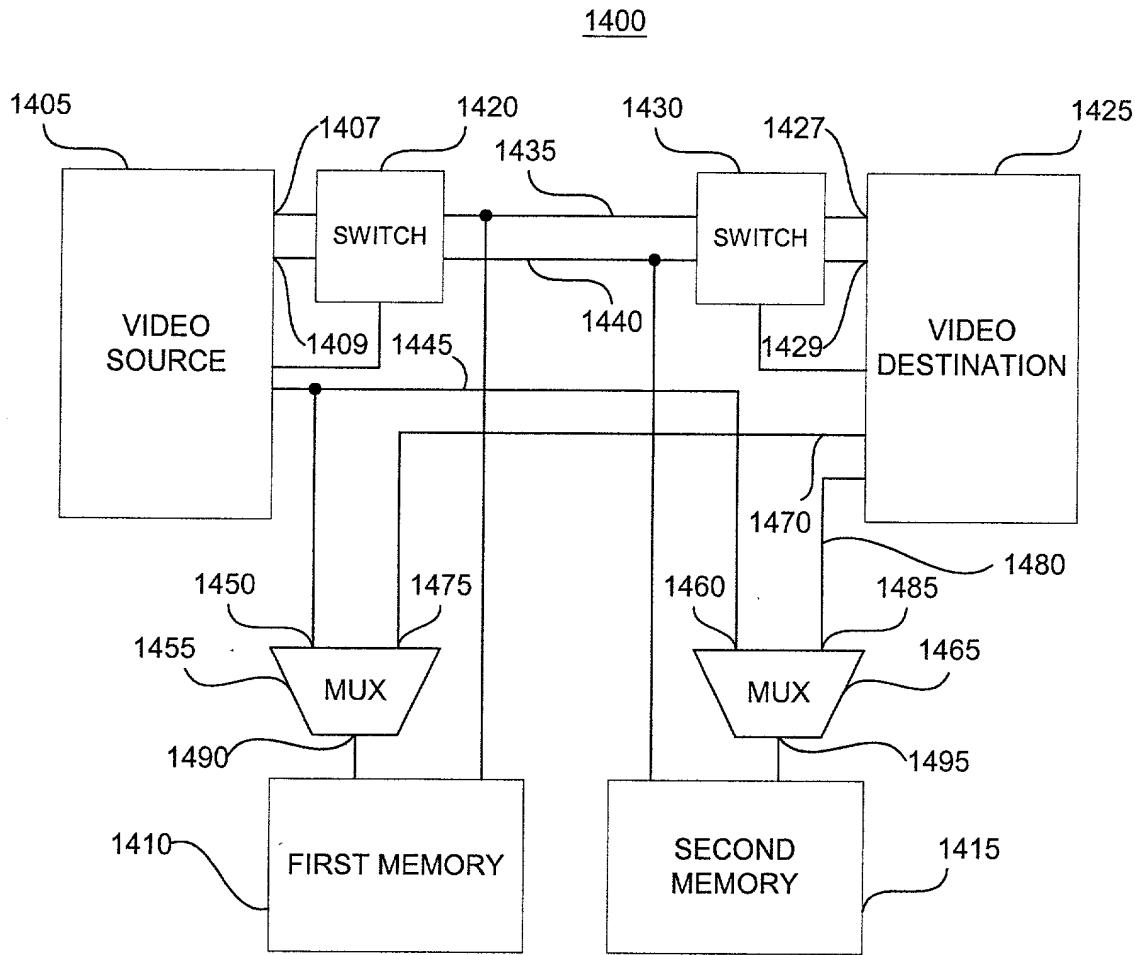


FIG. 15

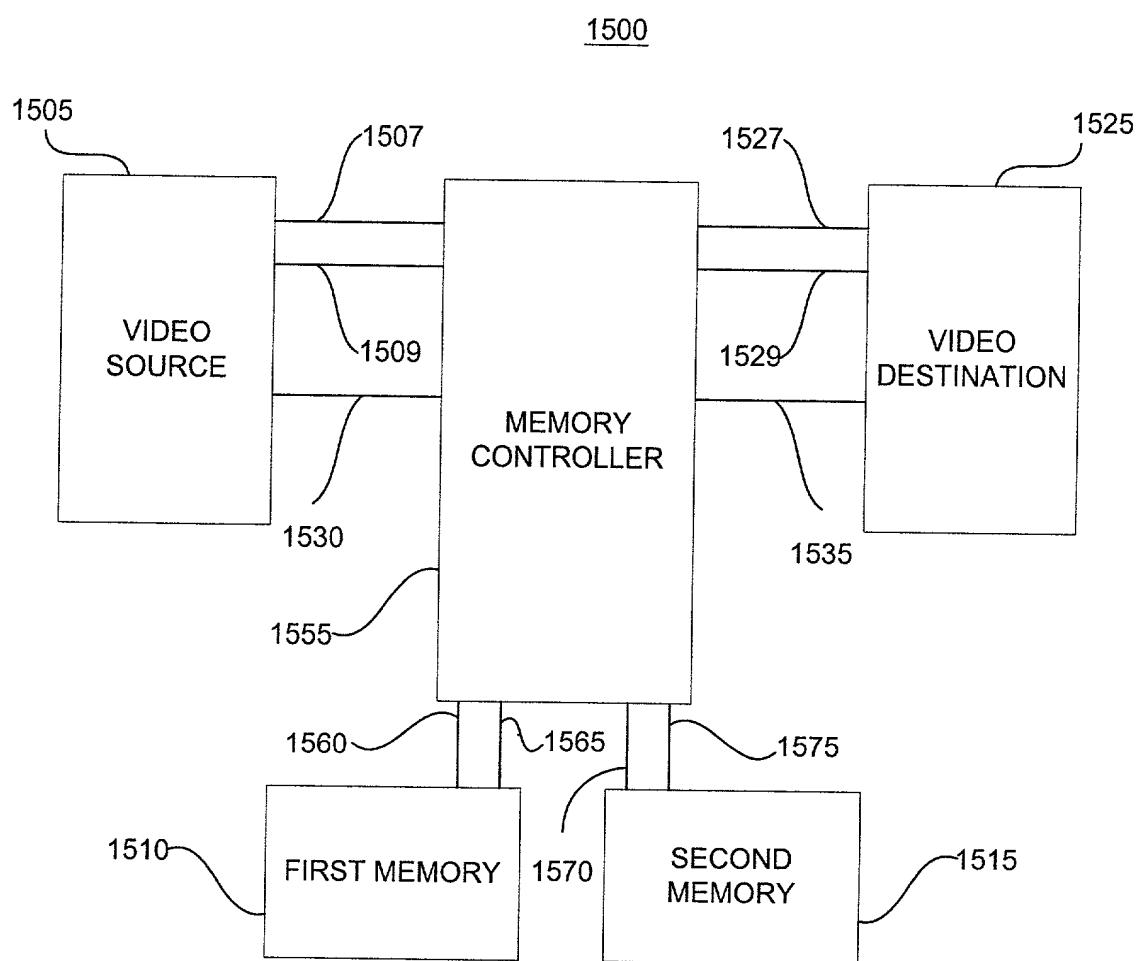


FIG. 16

1600

PIXEL	FRAME ROW	FRAME COLUMN	PIXEL PAGE	PIXEL PAGE ROW	PIXEL PAGE COLUMN	MEMORY PAGE	MEMORY ADDRESS	MEMORY DEVICE
0	0	0	0	0	0	0	0	0
1	0	1	0	0	1	0	0	1
15	0	15	0	0	15	0	7	1
16	0	16	0	0	16	0	8	0
31	0	31	0	0	31	0	15	1
1919	0	1919	59	0	31	59	15119	1
1920	1	0	0	1	0	0	16	1
28800	15	0	0	15	0	0	240	1
28815	15	15	0	15	15	0	247	0
28831	15	31	0	15	31	0	255	0
30719	15	1919	59	15	31	59	15359	0
XXX	XXX	XXX	60	0	0	60	15360	0
30720	16	0	64	0	0	64	16384	0
2073599	1079	1919	4347	7	31	4347	1112959	0
XXX	XXX	XXX	4352	0	0	4352	1114112	0

DATA FLOW DIAGRAM

FIG. 17

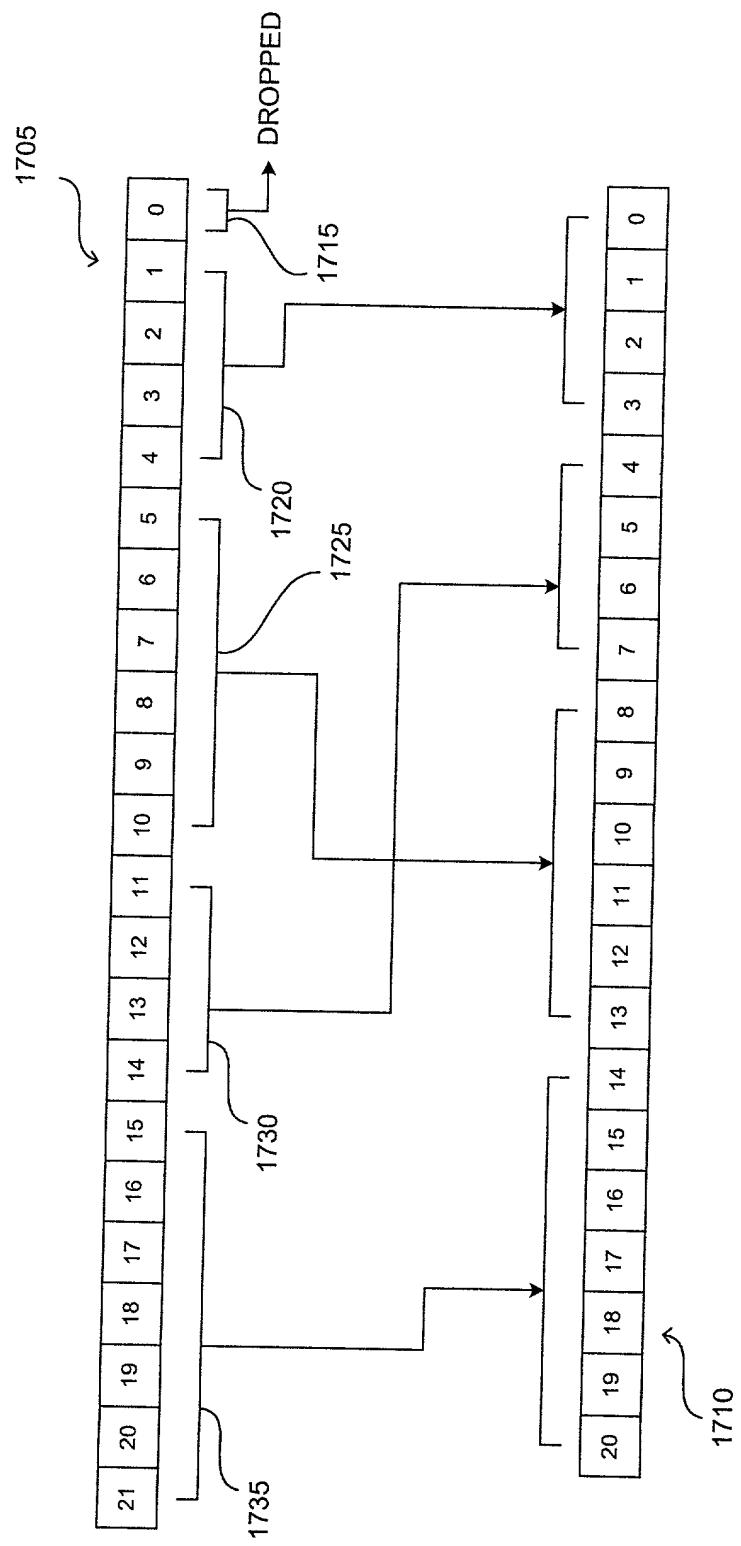


FIG. 18

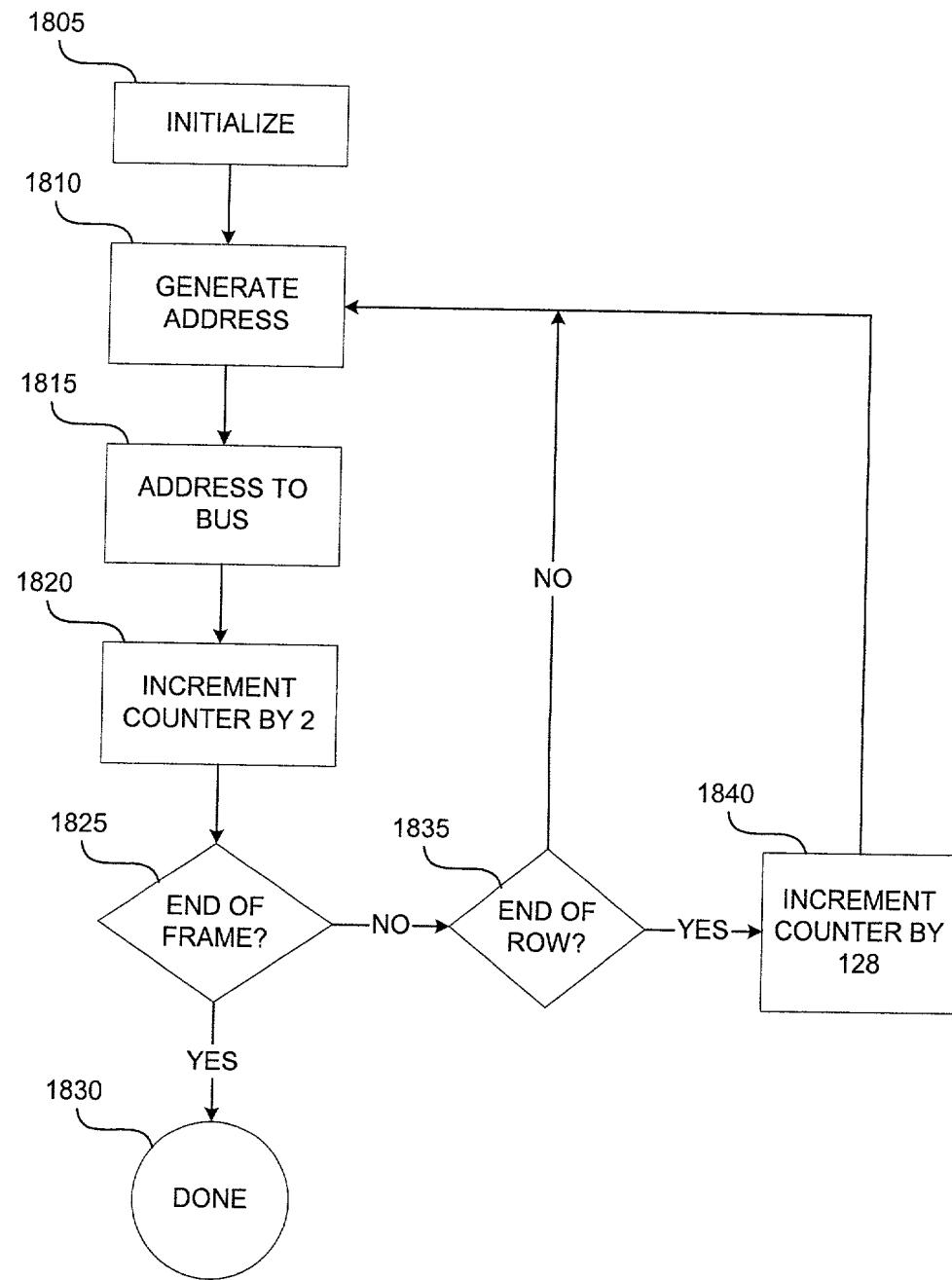


FIG. 19

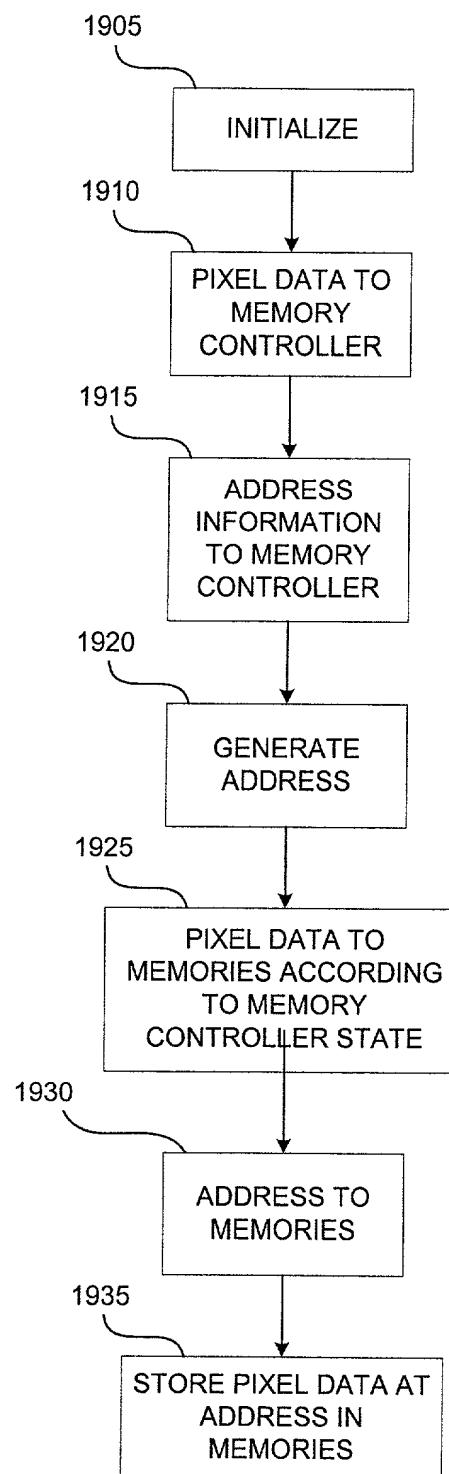


FIG. 20

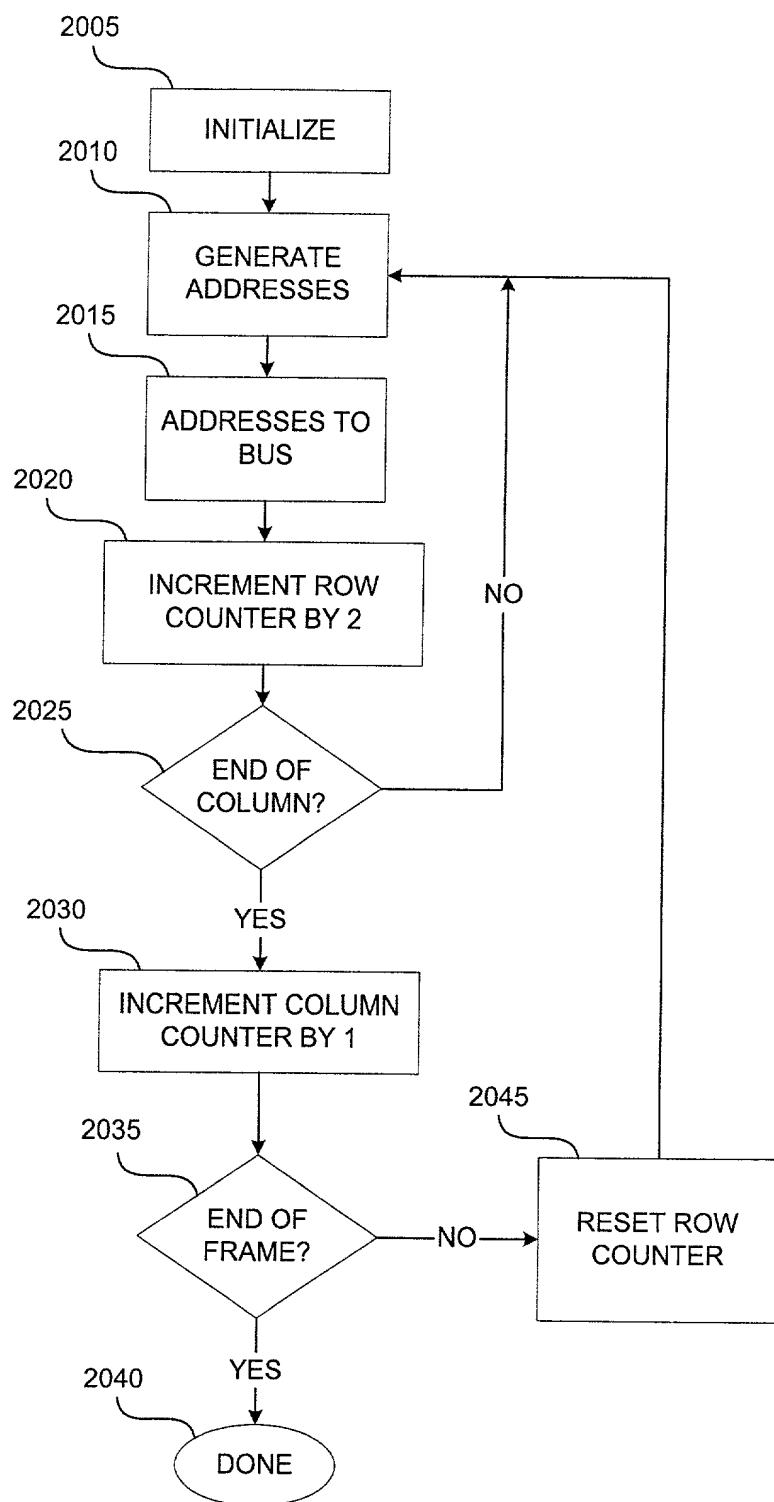


FIG. 21

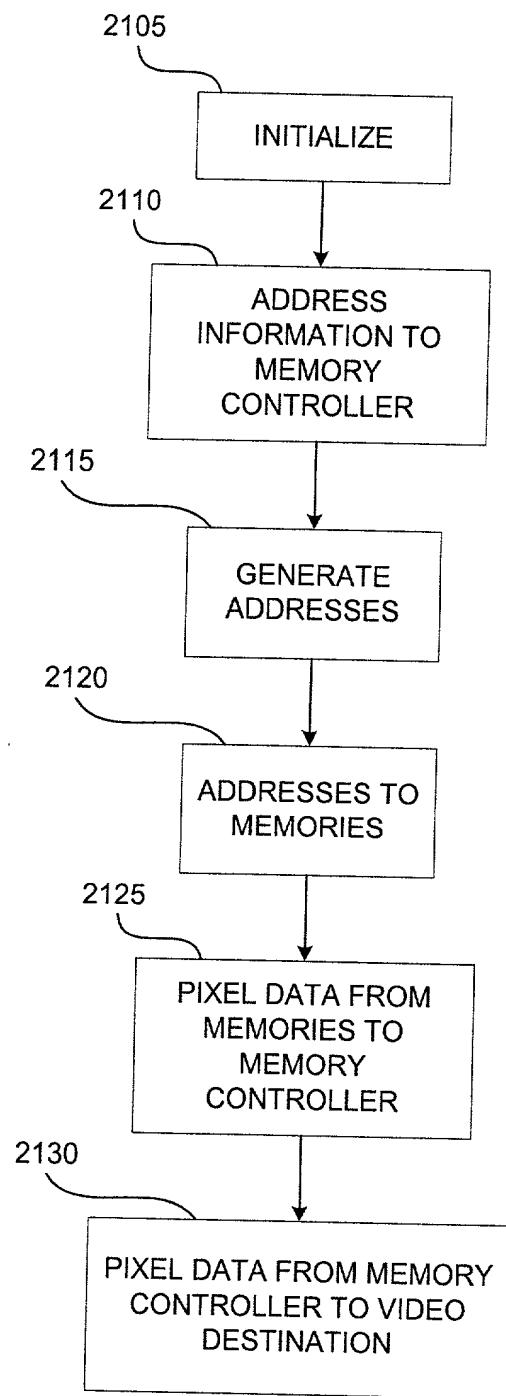


FIG. 22

2200

PIXEL	FRAME ROW	FRAME COLUMN	PIXEL PAGE	PIXEL PAGE ROW	PIXEL PAGE COLUMN	MEMORY PAGE	MEMORY ADDRESS	MEMORY DEVICE
0	0	0	0	0	0	0	0	0
1	0	1	0	0	1	0	0	1
15	0	15	0	0	15	0	7	1
16	0	16	0	0	16	0	8	0
31	0	31	0	0	31	0	15	1
1919	0	1919	59	0	31	59	15119	1
1920	1	0	0	1	0	0	16	1
28800	15	0	0	15	0	0	240	1
28815	15	15	0	15	15	0	247	0
28831	15	31	0	15	31	0	255	0
30719	15	1919	59	15	31	59	15359	0
30720	16	0	60	0	0	60	15360	0
30848	16	128	64	0	0	64	16384	0
2073599	1079	1919	4079	7	31	4079	1044351	0
XXX	XXX	XXX	4079	15	31	4079	1044479	0

FIG. 23

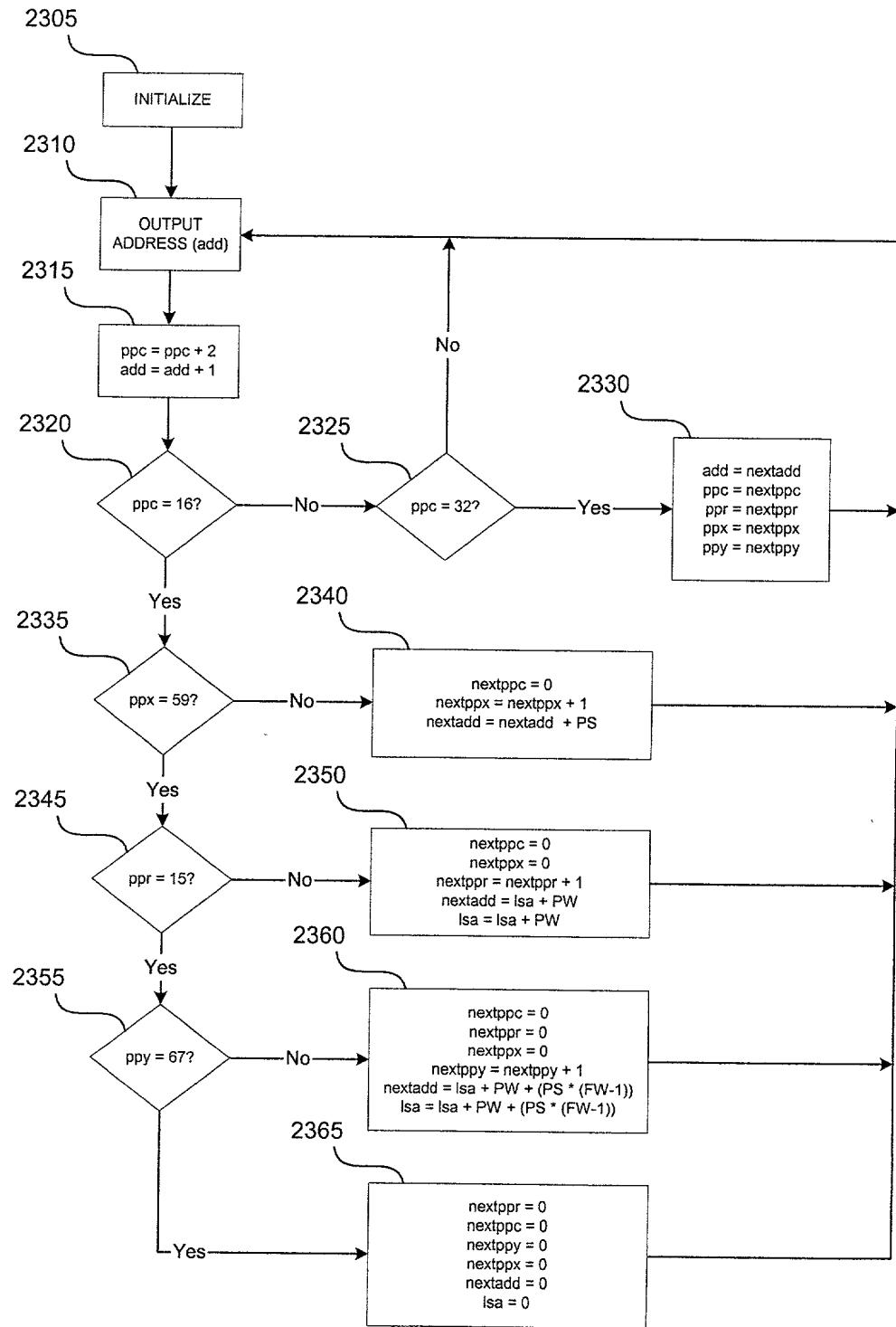


FIG. 24

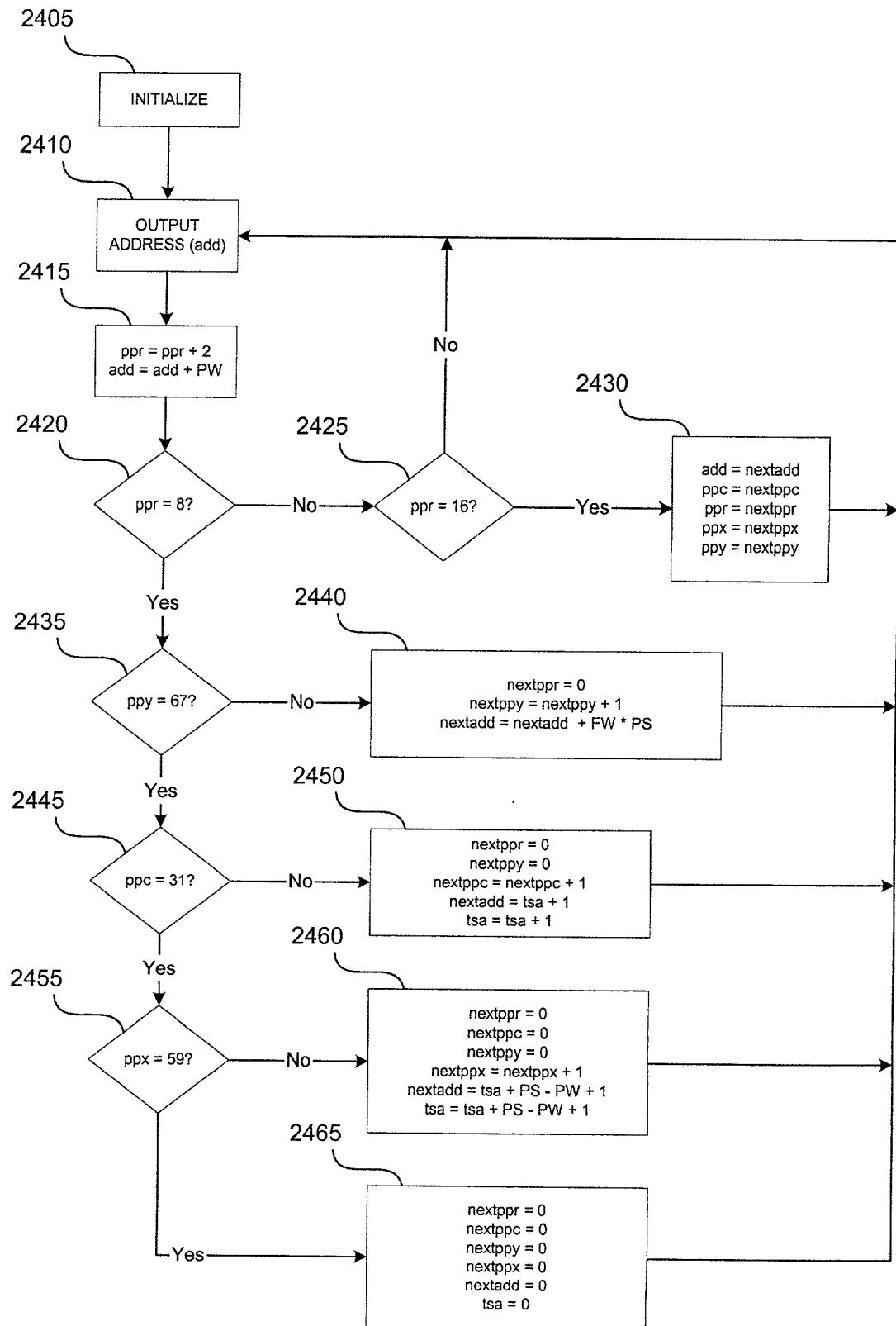


FIG. 25

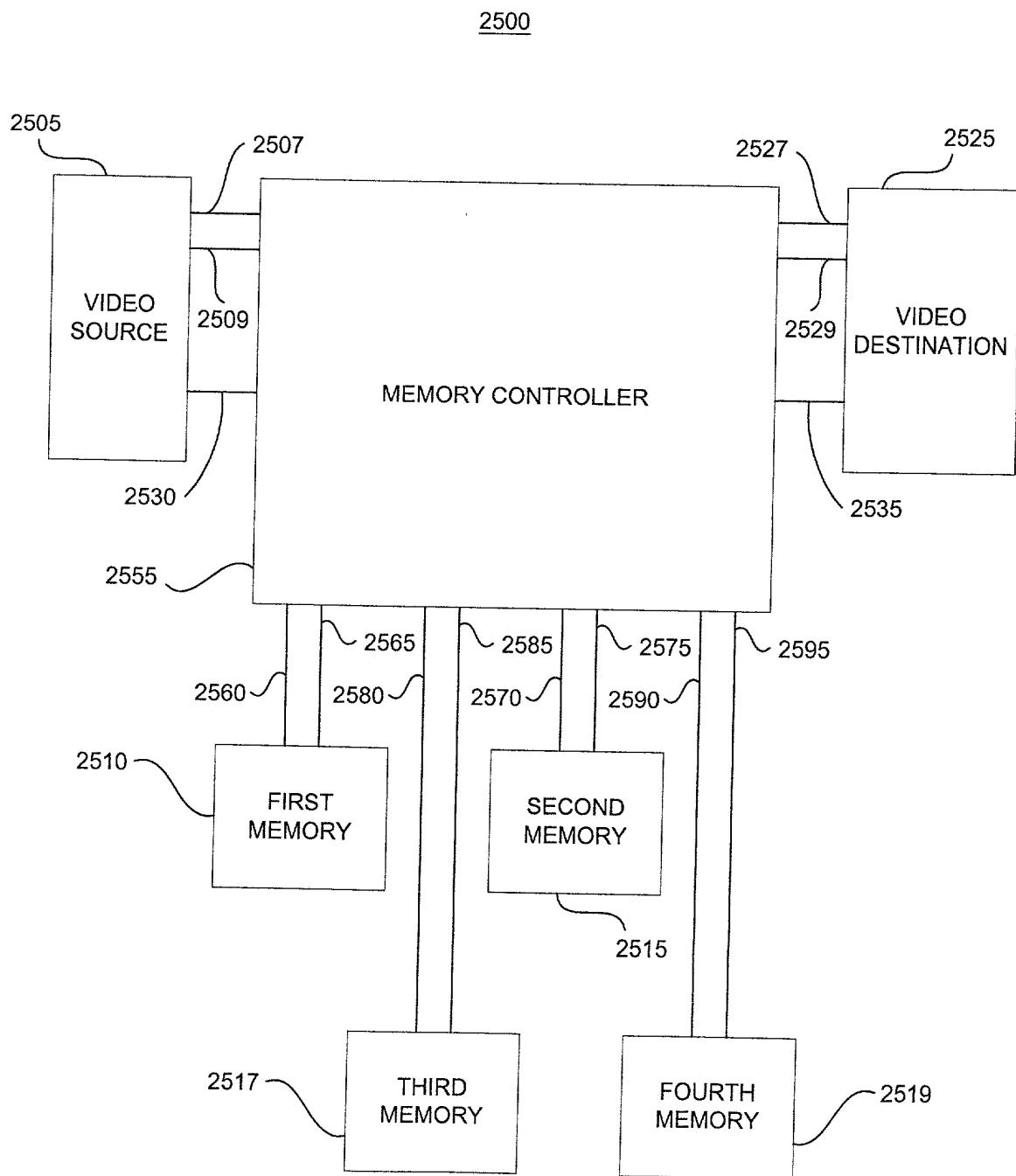


FIG. 26

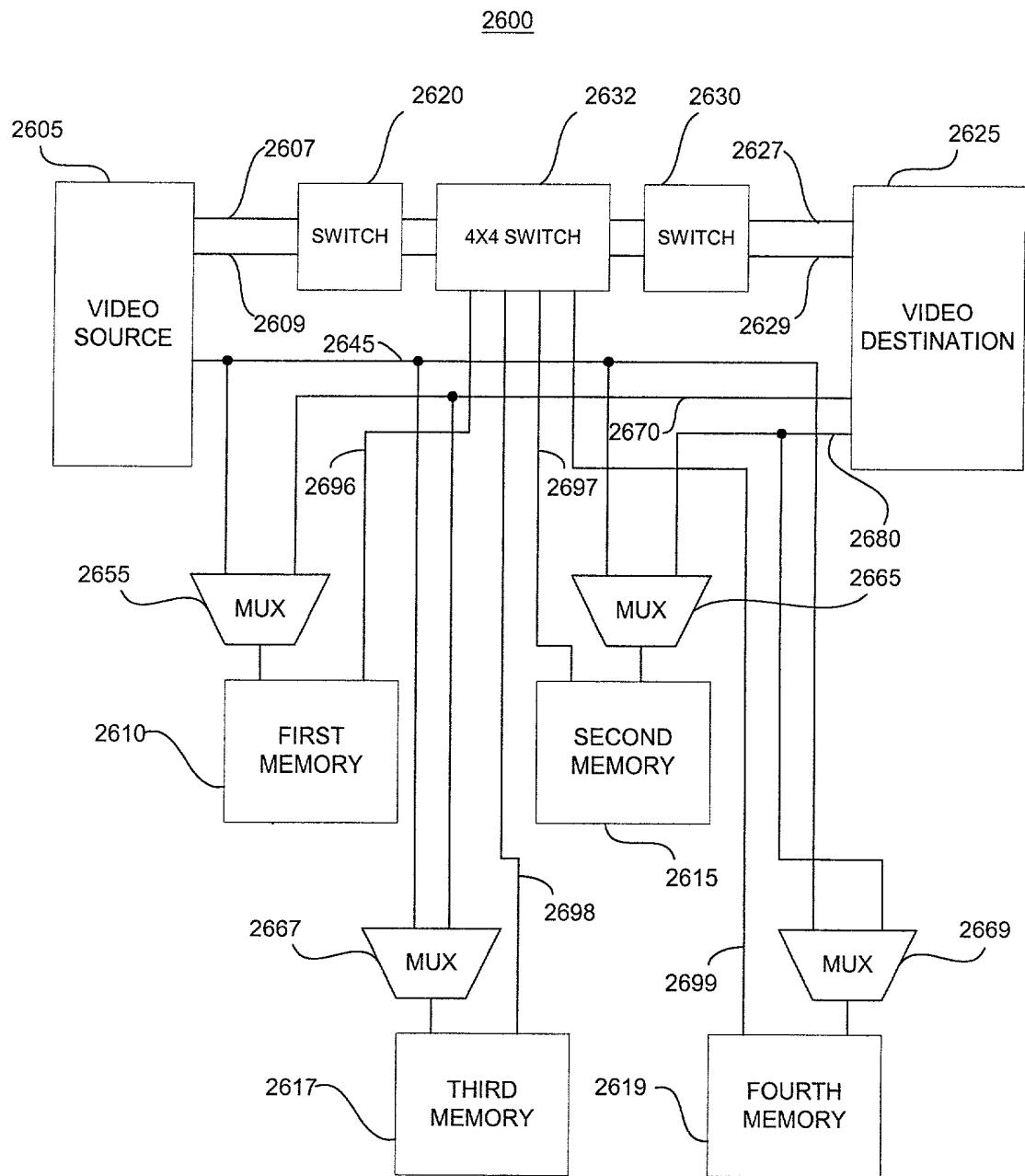


FIG. 27

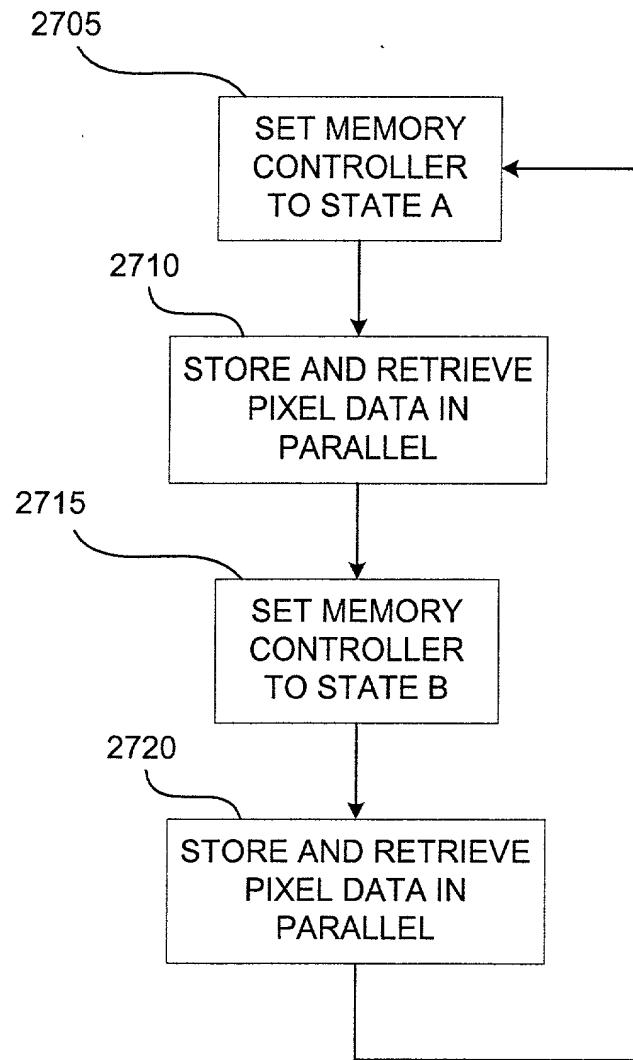


FIG. 28

